Recombinant Full Length Human ATRX Protein, GST-tagged

Cat. No. ATRX-1535HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATRX full-length ORF (AAH02521, 1 a.a. - 90 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	90 amino acids
Description	The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. This protein is found to undergo cell cycle-dependent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Mutations in this gene are associated with an X-linked mental retardation (XLMR) syndrome most often accompanied by alpha-thalassemia (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern of DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, and gene expression in developmental processes. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Aug 2013]
Molecular Mass	35.53 kDa
AA Sequence	MTAEPMSESK LNTLVQKLHD FLAHSSEESE ETSSPPRLAM NQNTDKISGS GSNSDMMENS KEEGTSSSEK SKSSGSSRSK RKPSIVNKND

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ATRX alpha thalassemia/mental retardation syndrome X-linked [Homo sapiens]
Official Symbol	ATRX
Synonyms	ATRX; alpha thalassemia/mental retardation syndrome X-linked; alpha thalassemia/mental retardation syndrome X linked (RAD54 (S. cerevisiae) homolog) , JMS, Juberg Marsidi syndrome , RAD54; transcriptional regulator ATRX; RAD54 homolog (S. cerevisiae); XH2; XNP; RAD54 homolog; X-linked helicase II; Zinc finger helicase; helicase 2, X-linked; X-linked nuclear protein; ATP-dependent helicase ATRX; DNA dependent ATPase and helicase; alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae); JMS; SHS; ATR2; SFM1; RAD54; MRXHF1; RAD54L; ZNF-HX; MGC2094
Gene ID	546
mRNA Refseq	NM_000489
Protein Refseq	NP_000480
MIM	300032
UniProt ID	P46100

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